MMM MMM MMM MMMMM MMMMMM MMMMMM	MM 000	00 NNN 00 NNN 000 NNN 000 NNN	NNN NNN NNN NNN		000000000 000000000 000000000 000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
MMMM MMMM		000 NNN	NNN	III	000 000	RRR RRR
	MM 000	000 NNNNN		III	000 000	RRR RRR
	MM 000	000 NNNNN		III	000 000	RRR RRR
	MM 000	000 NNNNN		TTT	000 000	RRR RRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	NNN GOO	NNNNNN	TTT	000 000	RRR RRR
	MM 000	000 NNN	NNNNNN	TTT	000 000	RRR RRR
	MM 000	000 NNN	NNNNNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	ŤŤŤ	000 000	RRR RRR
	MM 00000000		NNN	ŤŤŤ	000000000	RRR RRR
	MM 00000000		NNN	tit	00000000	RRR RRR
	MM 0000000		NNN	ttt	000000000	RRR RRR

STEPPELL PLUS PROPERTY PROPERT

FILEID**DSPDEF

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFF FF FF FF FF FF FF FF FF FF FF
MM MM MMM MMM MMM MMM MM	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD			

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CON

Additional data structures for Monitor utility

Version 'V04-000'

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; FACILITY: VAX/VMS MONITOR Utility

ABSTRACT:

This module contains the definition of the PMS\$C....
item identifiers used in the BLDIDB macros in the MONDAT.MAR
module. Every data item included in a Monitor class must
have an item identifier in this module.

ENVIRONMENT: Non-executable data structures.

AUTHOR: H. M. Levy , CREATION DATE: 2-May-1977

MODIFIED BY:

V03-010 TLC1066 Thomas L. Cafarella 01-Apr-1984 11:00 Add SYSTEM class.

V03-009 PRS1010 Paul R. Senn 27-feb-1984 9:00 Add Deadlock Message Rate to DLOCK class

V03-009 PRS1009 Paul R. Senn 22-FEB-1984 14:00 Add Internal-use-only VMS1 Class

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DSPDEF.MDL;1	16-SEP-198	84 16:38:50.92	Page :	2
v03-009	PRS1007 Paul R. Senn Misc. changes to XQPCACHE and FCP classe	17~FEB=1984	14:00	
v03-008	PRS1004 Paul R. Senn Misc. changes to POOL class	11-JAN-1983	16:00	
v03-007	TLC1050 Thomas L. Cafarella Change directory information in DLOCK c	06-Dec-1983	11:00	
v03-006	SPC0004 Stephen P. Carney Add SCS Class.	24-Jun-1983	16:00	
v03-005	TLC1035 Thomas L. Cafarella Add homogeneous class type and DISK class	06-Jun-1983	15:00	
v03-005	TLC1034 Thomas L. Cafarella Add DLOCK class.	06-Jun-1983	15:00	
v03-005	SPC0003 Stephen P. Carney Add JDEVICE class.	06-Jun-1983	15:00	
v03-004	TLC1032 Thomas L. Cafarella Add Blocking AST Rate to LOCK class.	27-May-1983	15:00	
v03-003	SPC0002 Stephen P. Carney Add ACPCACHE Class.	22-Apr-1983	14:00	
v03-002	TLC1028 Thomas L. Cafarella Add interactive user interface.	14-Apr-1983	16:00	
v03-002	TLC1026 Thomas L. Cafarella Miscellaneous updates to JOURNALING, RU	14-Apr-1983 and FCP classe	16:00 es	
v03-001	TLC1022 Thomas L. Cafarella Add item identifiers for the JOURNALING	12-Jul-1982 and RECOVERY	16:00 :lasses.	

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Define item identifier numbers. Each data item has an associated value which is used to find its IDB in the item table (PERFTABLE). The item table is defined by BLDIDB macros in the module MONDAT.MAR.

SSTRUCT PMS

PINTERRUPT PKERNEL PEXEC PSUPER PUSER PCOMPAT PIDLE SKERNEL SEXEC SSUPER SUSER SIDLE CPUBUSY COLPG CEF LEFO HIB HIBO SUSP SUSPO FPG COM COMO CUR OTHSTAT PROCS FRLIST MODLIST FAULTS PREADS PWRITES PWRITIO PREADIO GVALFLTS WRTINPROG FREFLTS DZROFLTS SYSFAULTS LRPCNT LRPINUSE IRPCNT

: time on interrupt stack -- primary : time in kernel mode -- primary time in exec mode -- primary time in supervisor mode -- primary ; time in supervisor mode -- primary
; time in user mode -- primary
; time in compat. mode -- primary
; idle time -- primary
; time on interrupt stack -- secondary
; time in kernel mode -- secondary
; time in exec mode -- secondary
; time in supervisor mode -- secondary time in supervisor mode -- secondary
time in user mode -- secondary
time in compat. mode -- secondary
idle time -- secondary
all modes except idle
collided page wait
memory wait
common event flag wait
page wait
local event flag wait
lef wait out of bal. set
hibernating hibernating

suspended

computing

current
'other states' for SYSTEM class
process count for SYSTEM class
size of free list
size of modified list
page fault count page fault count

page reads

page writes

physical page write I/O's

physical page read I/O's

global valid faults

faults from write in progress

faults from free list

faults from modified list

demand zero faults

system page faults

number of LRP packets available

number of IRP packets available

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CON END

IRPINUSE SRPCNT SRPINUSE BIGHOLE SMALLHOLE HOLESUM DYNINUSE SMALL CHT ISWPCHT DIRIO BUFIO MBREADS MBWRITES LOGNAM ACCESS ALLOC FCPCALLS FCPCREATE FCPREAD FCPWRITE FCPCACHE VOLWAIT F CPCPU F CPTURN FCPHIT FCPSPLIT FCPFAULT FCPERASE **OPENS** ENQNEW ENQCVT DEQ BLKAST ENQUAIT ENGNOTOD DLCKSRCH DLCKFND NUMLOCKS NUMRES ARRLOCPK DEPLOCPK ARRTRAPK **TRCNGLOS** RCVBUFFL **JNLJRNLS JNLCHNLS** JNLWRTAI JNLWRTB1 JNLWRTAT JNLWRTRU **JNLDIRIO** JNLBUF 10 **JNLWRTSS JNLFORNL** JNLFORFL

inumber of IRPs in use
inumber of SRPs in use
inumber of blocks in dyn. memory
ilargest hole
ismallest hole
idynamic memory space in use
inumber of blocks < 32 bytes in size
itotal inswaps
icount of direct I/Os
icount of direct I/Os
icount of buffered I/Os
itotal mailbox reads
itotal fip calls
inumber of file extends
itotal fip calls
inumber of disk reads by FCP
inumber of disk reads by FCP
inumber of disk reads by FCP
inumber of ities by FCP
inumber of Window turns
inumber of window turns
inumber of window turns
inumber of window turns
inumber of window hits
inumber of window hits
inumber of FCP page faults
inumber of FCP page faults
inumber of FCP page faults
inumber of ENQ's (conversions)
inumber of ENQ's (conversions)
inumber of ENQ's (conversions)
inumber of ENQ's not queued
inumber of ENQ's not queued
inumber of ENQ's not queued
inumber of deadlocks found
itotal locks
itotal resources
inumber of ENQ's not queued
inumber of deadlocks found
itotal locks
itotal resources
inumber of ENQ's not queued
inumber of eadlocks found
itotal locks
itotal resources
inumber of eadlocks found
itotal locks
itotal resources
inumber of eadlocks found
itotal locks
itotal resources
inumber of eadlocks
itotal resource journal write operations to sec stg force writes -- NULL operation force writes -- flushed

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JNLBUFWR
JNLWRTFM
RUFACTIV
                                                                                                                                                                                                                                  journal buffer-writes force modifier writes
                                                                                                                                                                                                          iournal buffer-writes
force modifier writes
active recovery units
active RU journals
RU journal writes
RU journal writes
RU journal extends
count of Mark IDs written
count of Mark ID rollbacks
count of Mark ID rollbacks
count of File Id cache hits/hits+misses
count of File Id cache hits
count of File Id cache hits
count of File Id cache misses
Percentage of File header cache hits/hits+misses
count of File Header cache hits
count of File header cache attempts
Percentage of Directory block cache hits
count of Directory block cache misses
percentage of Directory block cache hits/hits+misses
count of Directory block cache misses
Percentage of Directory data cache hits/hits+misses
count of Extent cache hits
count of Guota cache hits
count of Quota cache hits
count of Quota cache hits
count of Storage bitmap cache hits/hits+misses
count of storage bitmap cache hits
count of storage bitmap cache hits
count of storage bitmap cache attempts
disk i/o operation count
i/o queue length (used by DISK & JDEV)
journaling i/o op'n count (for DISK)
idevice wait IRP queue length
idevice extend count

new lock requests (local)
                                                                                                                                                                                                                                 active recovery units
  RUF JNLS
RUF CHNLS
  RUFWRTS
  RUFREADS
  RUFXTNDS
   RUFMARK
    RUFMRKRB
  RUFABORT
FIDHITPCNT
FIDHITPCNT
FIDHIT
FID TRIES
FIDMISS
FILHDR_HITPCNT
FILHDR_TRIES
DIRFCB_HITPCNT
DIRFCB_HIT
DIRFCB_HIT
DIRFCB_MISS
DIRDATA_HITPCNT
DIRDATA_HIT
DIRDATA_TRIES
EXTHITPCNT
EXTHIT
 EXTHIT
EXT TRIES
EXTMISS
  QUOHITPENT
  TIHOUD
QUO TRIES
QUOMISS
STORAGMAP_HITPCNT
STORAGMAP_HIT
STORAGMAP_TRIES
 OPCNT
IOQUELEN
JNLIOCNT
    JONGLEN
    JOWQLEN
    JDFQLEN
  JDEXCNT
                                                                                                                                                                                                                 ; new lock requests (local)
; new lock requests (incoming)
; new lock requests (outgoing)
; lock conversion requests (local)
; lock conversion requests (incoming)
; lock conversion requests (outgoing)
; dequeues (local)
; dequeues (incoming)
; dequeues (outgoing)
; blocking ASTs queued (local)
; blocking ASTs queued (incoming)
; blocking ASTs queued (outgoing)
  ENQNEWLOC
    ENQNEWIN
    ENQNEWOUT
    ENQCVTLOC
  ENGCVTIN
ENGCVTOUT
  DEGLOC
  DEQOUT
  BLKLOC
    BLKIN
  BLKOUT
```

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DSPDEF . MDL:1
                          DIRLOOK
                                                                                                                                          directory lookups
directory inserts
                                                                                                                                       directory inserts
directory deletes
directory operations (incoming)
directory operations (outgoing)
deadlock detection messages (in & out)
SCS application datagrams sent
SCS application datagrams received
SCS application messages sent
SCS application messages sent
SCS application messaged received
SCS block send datas initiated
SCS block request datas initiated
SCS kbytes sent via send datas
SCS block request datas initiated
SCS kbytes received via request datas
SCS kbytes mapped for block xfr
SCS times conn. q'd for send credit
SCS times conn. q'd for buff descr
Volume synch locks
directory and file synch locks
directory or file synch lock
access locks
# of times XQP waited for a
directory or file synch lock
access locks
# of times XQP had to wait for free
space in a cache
                          DIRDEL
                          DIRIN
                          DIROUT
                          DLCKMSGS
                           DGSENT
                          DGRCVD
                           DGDISCARD
                           MSGSENT
                          MSGRCVD
                           SNDATS
                           KBYTSENT
                           REQUATS
                          KBYTREQD
                          KBYTMAPD
                          QCR_CNT
QBDT_CNT
VOLLCK
                          SYNCHLCK
SYNCHWAIT
                          ACCLCK
                                                                                                                                     : space in a cache
     the following must be the last entry
                                                                                                                                    ; for allocating table space in ; PERFTABLE
                          TABLESIZE
                         E
```

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